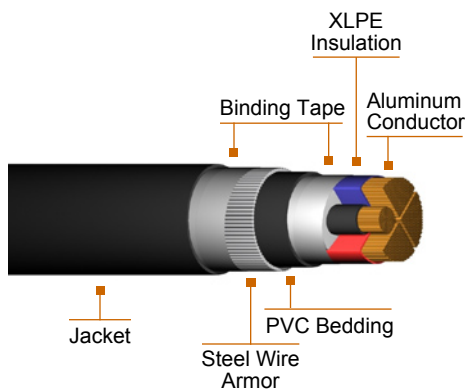


PDTL Low Voltage Power Cable

Four Core 600/1000 V Cable with reduced circular Neutral Conductor and with Stranded Conductors, LSOH Jacket



Detail Description or Construction

Four cross-linked polyethylene insulated of reduced compacted circular neutral conductor and stranded copper or aluminum conductors, with steel wire armor and thermoplastic jacket of LSOH (Low smoke halogen free, flame retardant).

Application

For use in ducts, trays and direct burial in ground. The cable is subject to immerse in water all the time.

Standards / Testing Specifications

- IEC 60502-1.

Marking

0.6/1 KV XLPE/SWA/LSOH A x B SQ.MM., PHELPS DODGE

A = Number of cores

B = Size of conductor (SQ.MM.)

Installation

Low voltage power cable can be installed in duct, tray or direct burial. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.



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Nominal Cross Sectional Area of Phase Conductor	Nominal Cross Sectional Area of Neutral Conductor	Thickness of Insulation, Phase Conductor	Thickness of Insulation, Neutral Conductor	Thickness of Extruded Bedding Diameter	Nominal Steel Armor Wire	Thickness of Oversheath	Approximate Overall Diameter	Approximate Cable Weight		Standard Packing
								kg / km		
mm ²	mm ²	mm	mm	mm	mm	mm	mm	Copper	Aluminum	m
25 ²⁾	16 ¹⁾	0.9	0.7	1	1.6	1.7	26.1	1750	-	500/R
25 ¹⁾	16 ¹⁾	0.9	0.7	1	1.6	1.7	28.9	1760	-	500/R
35 ²⁾	16 ¹⁾	0.9	0.7	1	1.6	1.8	27.9	2130	-	500/R
35 ¹⁾	16 ¹⁾	0.9	0.7	1	1.6	1.8	31.9	2140	-	500/R
50 ²⁾	25 ³⁾	1	0.9	1	1.6	1.9	31.2	2770	1710	500/R
70 ²⁾	35 ³⁾	1.1	0.9	1.2	2	2	36.6	3870	2340	500/R
95 ²⁾	50 ³⁾	1.1	1	1.2	2	2.1	41	4910	2800	500/R
120 ²⁾	70 ³⁾	1.2	1.1	1.2	2	2.2	45.3	6060	3340	500/R
150 ²⁾	70 ³⁾	1.4	1.1	1.4	2.5	2.4	50	7610	4360	500/R
185 ²⁾	95 ³⁾	1.6	1.1	1.4	2.5	2.5	55.3	9150	5020	500/R
240 ²⁾	120 ³⁾	1.7	1.2	1.6	2.5	2.6	61.1	11620	6220	500/R
300 ²⁾	150 ³⁾	1.8	1.4	1.6	2.5	2.8	66.7	13980	7220	500/R
300 ²⁾	185 ³⁾	1.8	1.6	1.6	2.5	2.8	68.6	14290	7490	500/R
400 ²⁾	185 ³⁾	2	1.6	1.6	2.5	3	73.8	18250	9950	500/R

¹⁾ Circular or compacted circular conductor (class2).
²⁾ Shaped stranded conductor (class 2)
³⁾ Circular or compacted circular stranded conductors (class2).
R = Packing in reel



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Four Core 600/1000 V Cable with reduced circular Neutral Conductor and with Stranded Conductors, LSOH Jacket

Current carrying capacities in amperes for 600/1000 V XLPE insulation, Four core with reduced neutral conductor, in free Air (30°C) and in ground (20°C)

Nominal Cross-sectional Area of Conductor	Installation Methods of Table A.52-1	
	In air	Direct Burial
mm ²		

Nominal Cross-sectional Area of Conductor	Installation Methods of Table A.52-1	
	In air	Direct burial
mm ²		

Copper		
16	96	79
25	119	101
35	147	122
50	179	144
70	229	178
95	278	211
120	322	240
150	371	271
185	424	304
240	500	351
300	576	396

Aluminum		
16	76	61
25	90	78
35	112	94
50	136	112
70	174	138
95	211	164
120	245	186
150	283	210
185	323	236
240	382	272
300	440	308

Note: Ampacity of four cores cable with reduced neutral conductor, XLPE insulation based on conductor temperature of 90°C and - ambient air temperature of 30°C per IEC 60364-5-52: 2001, Table A. 52-5(52-C4) Column 6 - ground temperature of 20°C per IEC 60364-5-52: 2001, Table A. 52-5(52-C4) Column 7